CMS5100 Patient Monitor

Brief introduction

1 Introduction

CMS5100 Patient Monitor is a feature-rich monitoring device that can be applied to adults, pediatric and neonate. User can choose different measurement parameters according to different needs. The patient monitor can monitor NIBP, SpO_2, PR and TEMP. It integrates the function of parameter measuring and displaying into a compact, lightweight patient monitor, which is suitable for all levels of hospitals, community medical and home use.

2 Features

1) Be applicable for NIBP, SpO_2 and TEMP monitoring of adult, pediatric and neonate of all ages, easy to operate, high cost-effective;

2) Be applicable for medicine, surgery, operating room, ICU/CCU, emergency room, obstetrics and gynecology, pediatrics;
3) Compact and flexible appearance, easy for carrying and suitable for indoor and outdoor (in ambulance) monitoring;
4) Built-in rechargeable lithium polymer battery, ensures uninterrupted monitoring;
5) Perfect menu design, user-friendly interface;
6) Display the measurement result of SYS, DIA, SpO_2, PR and bar graph by the display screen of high-brightness digital tube;
7) 2.8" (320×240) true color TFT LCD screen, displays the information of TEMP data, time, SpO_2 Plethysmogram, alarm condition, trend graph, list and system settings, etc.;
8) Visual and audible alarm for SYS, DIA, MAP, SpO_2, PR and TEMP, and upper and lower limit of alarm can be set as necessary;
9) Independent nonvolatile memory, storage for up to 2,000 groups of NIBP data, 7900 groups of TEMP data and 78,000 groups of SpO_2 data;
10) Convenient and quick in reviewing measurement data, available for reviewing the NIBP trend graph of 24 hours, TEMP data of 24 hours and SpO_2 trend graph of 22 hours.

3 Performance

3.1 NIBP

Using Oscillometry technology(also called Oscillography technology) to measure the blood pressure.

1) Measurement mode: manual/auto/continuous
2) Measurement interval in auto mode: 1, 2, 3, 4, 5, 5×n(n=2, 3,4...51) min.
3) Resolution: 1 mmHg
4) Accuracy: max mean error: ±5 mmHg; max standard deviation: 8 mmHg.
5) Overpressure protection: dual protection for both software and hardware
6) Others: reset, self-testing and accuracy testing of static pressure
7) Measurement range:

Adult

SYS 40 mmHg~270 mmHg
DIA 10 mmHg~215 mmHg

Pediatric:

SYS 40 mmHg~200 mmHg
DIA 10 mmHg~150 mmHg

Neonate:

SYS 40 mmHg~135 mmHg
DIA 10 mmHg~100 mmHg

3.2 SpO_2

Using Photoelectric Oxyhemoglobin Inspection Technology combined with Capacity Pulse Scanning & Recording Technology to measure the SpO_2.

1) Measurement range: 0 %~100 %
2) Alarm range: 0 %~100 %
3) Resolution: 1 %

4) Accuracy: 70 %~100 %, ±2 %; below 70 % unspecified.

3.3 PR

Using Photoelectric Oxyhemoglobin Inspection Technology combined with Capacity Pulse Scanning & Recording Technology to measure the pulse rate.

1) Measurement range: 25 bpm~250 bpm
2) Alarm range: 25 bpm~250 bpm
3) Resolution: 1 bpm
4) Accuracy: ±2 bpm or ±2 %, whichever is greater

3.4 TEMP

Using thermal resistor method to measure body surface temperature or body cavity temperature in an accurate, safe and convenient way.

1) Measurement range: 0 ℃~50 ℃
2) Alarm range: 0 ℃~50 ℃
3) Resolution: 0.1 ℃
4) Accuracy: ±0.1 ℃

3.5 Safety and Power supply

1) Power supply: rated voltage: ~220 V, rated power: 50 Hz
2) Safety classification: Class I equipment, type BF defibrillation-proof applied part

4 Accessories

1) One User Manual
2) One power cord
3) One power adapter
4) One SpO_2 sensor
5) One adult NIBP cuff
6) One NIBP extension tube
7) One TEMP probe

5 Physical characteristic

Dimension: 190 mm(L)×162 mm(W)×240 mm(H)
Weight: about 1.6 kg